

HAND-GUIDING OF INDUSTRIAL ROBOTS (LMS/AIMEN)

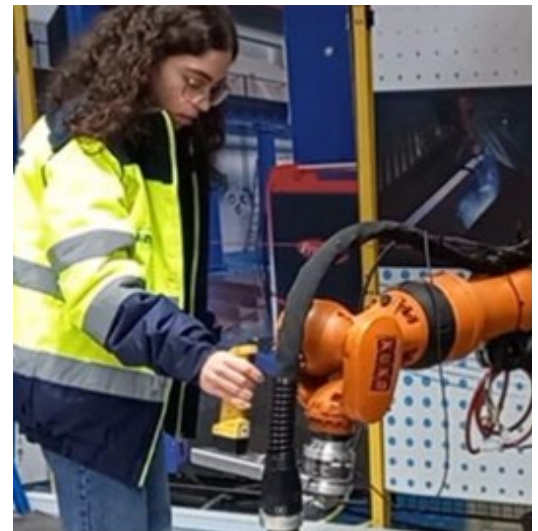
We have collaborated to adapt the hand guiding technology, originally developed by AIMEN for ABB robots. For Mari4_YARD this technology is adapted for KUKA and COMAU robots. The main benefit is the adoption of industrial robots for collaborative applications, so working payloads and applications can be increased for industrial robots.

Involved partners



Technology

Hand guiding technology consists of moving the robot by direct operator interaction with a device placed at robot's wrist. Robot is also equipped with a Force/Torque sensor and high-speed communication protocol to monitor forces and torques applied by the operator in real-time. The controller can be configured for smooth operations.



Applications

The main application of the hand guiding technology is to assist the user to manipulate the heavier loads. The It's key impacts are: to reduce the risk of human injuries due to load manipulation, to lower the programming time, and to expand the applications of industrial high payload robots.

